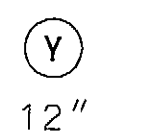




PROPOSED LED SIGNALS

1,2,3,4



12"

5,10



W11-2
(48"x48")

6,11



R1-6a(3)(R)
(30"x30")

7,12



R1-6a(3)(L)
(30"x30")

8,13



W11-2
(30"x30")
W16-7p(R)
(24"x12")

9,14



W11-2
(30"x30")
W16-7p(L)
(24"x12")

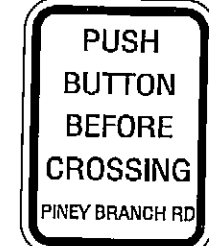
R4-7



TO BE INSTALLED
BY OTHERS

PROPOSED APS MODEL X PUSHBUTTON AND SIGN

15,16,17,18



R10-4 MOD
(9"x12")

EXISTING SIGNS TO BE RELOCATED

5a



SPEED
LIMIT
40

EXISTING SIGNS TO REMAIN

R7-1(1)



W2-2R



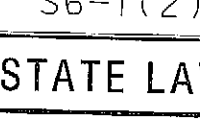
W1-5R



R10-7

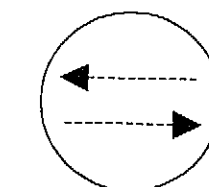


S6-1(2)

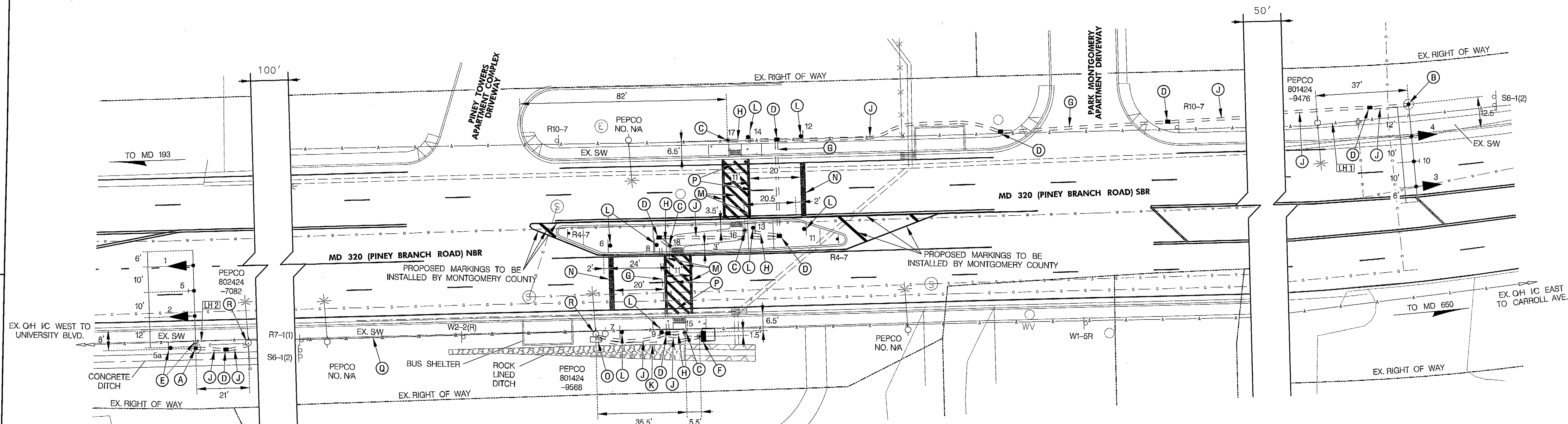


STATE LAW
STOP FOR
SCHOOL BUS
WHEN RED
LIGHTS FLASH

NEMA PHASING



FLASHING
OPERATION
WHEN
ACTIVATED



CONSTRUCTION DETAILS

- INSTALL A 16.5 FT. STEEL POLE WITH A 15 FT. "T" DIMENSION, 60 FT. MAST ARM (CUT TO 38 FT.), FOUNDATION, LED TRAFFIC SIGNAL HEADS AND SIGN (NOTE: 1-3 IN. 90 DEGREE PVC CONDUIT BEND).
- INSTALL A 16.5 FT. STEEL POLE WITH A 15 FT. "T" DIMENSION, 60 FT. MAST ARM (CUT TO 38 FT.), FOUNDATION, LED TRAFFIC SIGNAL HEADS AND SIGN (NOTE: 1-3 IN. 90 DEGREE PVC CONDUIT BEND).
- INSTALL A 5 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION PER SHA STD. MD 801.01-01, BREAKAWAY COUPLINGS, APS MODEL X PEDESTRIAN PUSHBUTTON (ARROW LEFT) AND SIGN R10-4 MOD "PUSH BUTTON BEFORE CROSSING PINEY BRANCH RD" (NOTE: 1-2 IN. 90 DEGREE PVC CONDUIT BEND).
- INSTALL ELECTRICAL HANDHOLE.
- RELOCATE EXISTING SIGN #801424-7082 ON ONE 4 IN. x 6 IN. WOOD SUPPORT.
- INSTALL A 20 FT. PEDESTAL POLE (CUT TO 10 FT.) WITH FOUNDATION, ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 100 AMP, A NEMA SIZE "5" POLE MOUNTED CABINET AND A 5 FT. x 5 FT. CONCRETE PAD (NOTE: 1-3 IN. & 1-4 IN. 90 DEGREE PVC BENDS).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - PUSHED.
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED.
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE, CAP AND MARK CONDUIT, AND LEAVE A 1 FT. STUB WITH PULL STRING AT BASE OF UTILITY POLE FOR USE BY OTHERS.
- INSTALL GROUND MOUNTED SIGN ON ONE 4 IN. x 6 IN. WOOD SUPPORT.
- INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
- INSTALL 24 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE.
- USE EXISTING INTERCONNECT SPLICE CABINET.
- REMOVE EXISTING PAVEMENT MARKINGS.
- INSTALL 1/4 IN. SPAN WIRE WITH ELECTRICAL CABLE FROM PEPCO POLE #801424-7082 TO PEPCO POLE #801424-9568.
- INSTALL 3 IN. GALVANIZED STEEL ELECTRICAL CONDUIT RISER AND 3 IN. WEATHER HEAD ON EXISTING UTILITY POLE.

GENERAL NOTES

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR FOLLOWING MONTGOMERY COUNTY GUIDELINES UTILIZING THE MOST RECENT EDITION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR TRAFFIC CONTROL.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 818.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL INTEGRATE PROPOSED CONCRETE FOUNDATIONS WITH THE PROPOSED SIDEWALK WHERE NECESSARY.
- THE CONTRACTOR SHALL CONTACT MR. KAMAL HAMUD AT 240-777-8761, 72 HOURS PRIOR TO STARTING ALL WORK.
- PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA DOES NOT HAVE TO REACH MORE THAN 18 IN.
- THE CONTRACTOR SHALL REFER TO FIGURE 3B-20a OF THE 2011 MARYLAND M.U.T.C.D. FOR CROSSWALK PAVEMENT MARKING DETAIL.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE FOUNDATIONS PRIOR TO INSTALLATION.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MARYLAND MUTCD STANDARDS.
- THE CONTRACTOR SHALL CENTER THE CROSSWALKS ON THE NEWLY CONSTRUCTED RAMPS.
- ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE CONSTRUCTED PRIOR TO SIDEWALK INSTALLATION, INCLUDING CONDUIT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH THE ROADWAY CONTRACTOR.
- MONTGOMERY COUNTY WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MARYLAND MUTCD SEC. 4E.09 AND FIG. 4E.2; AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS AND NOTIFY THE PROJECT ENGINEER. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60 IN. x 60 IN. LEVEL LANDING AREA, A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION TO LOCATE UTILITIES. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITY AND TRAFFIC SIGNAL WORK WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT CONFLICTS MAY BE RESOLVED.
- WOOD SUPPORTS INSTALLED IN CONCRETE SHALL BE INSTALLED WITH SLEEVED FOUNDATIONS AS PER STANDARDS MD 812.05-01 AND MD 812.05-02.
- THE CONTRACTOR SHALL REPLACE CONCRETE SIDEWALK IN KIND IMPACTED BY PROPOSED SIGNAL EQUIPMENT INSTALLATION.

GENERAL NOTES CONT.

- THE 10 FT. MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER OF POLE TO CENTER OF POLE.
- ALL SIDEWALK CONSTRUCTION TO BE COMPLETED BY MONTGOMERY COUNTY.

LINE HEIGHTS (LH) 1	
COMMUNICATION 1	26'-0"

LINE HEIGHTS (LH) 2	
COMMUNICATION 1	18'-11"
COMMUNICATION 2	20'-2"
COMMUNICATION 3	20'-7"
COMMUNICATION 4	24'-6"
SECONDARY	30'+
PRIMARY	35'+

STV
STV Incorporated
7125 Ambassador Road, Suite 200
Baltimore, MD 21244
www.stvinc.com

GEOMETRIC LEGEND

EXISTING PROPOSED

UTILITY LEGEND

E	E	ELECTRIC CABLES	SD	SD	STORM DRAIN
A	A	AERIAL CABLES	G	G	GAS MAIN
T	T	TELEPHONE CABLES	W	W	WATER MAIN
F	F	FIBER-OPTIC	S	S	SEWER MAIN

APPROVALS	REVISIONS
<i>[Signature]</i> 4/9/2012 TEAM LEADER	
<i>[Signature]</i> 4/12/12 ASSIST. DIR. CHIEF	
<i>[Signature]</i> 4/13/12 DIVISION CHIEF	
<i>[Signature]</i> 4/12/12 OFFICE DIRECTOR	

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION MD 320 (PINEY BRANCH ROAD) AT PARK MONTGOMERY APARTMENT DRIVEWAY ADELPHI, MARYLAND	
SIGNALIZATION PLAN SHEET	
SCALE 1"=20'	ADVERTISED DATE 4/2012 CONTRACT NO. MONT. COUNTY
DESIGNED BY MCG	COUNTY MONTGOMERY
DRAWN BY MCG	LOGMILE 15032002.20
CHECKED BY MTS	TMS NO. K288
F.A.P. NO.	TOD NO.
TS NO. 4842	DRAWING SG-01 OF 03 SHEET NO. 01 OF 03

PLOTTED: Thursday, April 05, 2012 AT 02:26 PM
FILE: I:\PROJECTS\4013389\4013389_0278\Drawings\TRA\pSG-P001_MD320.dgn